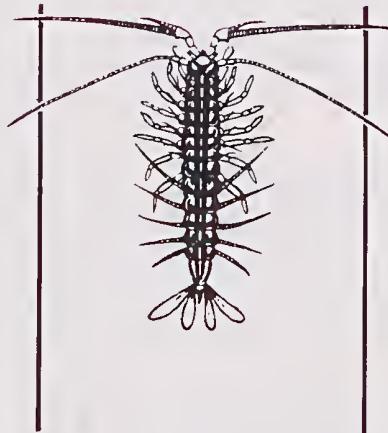
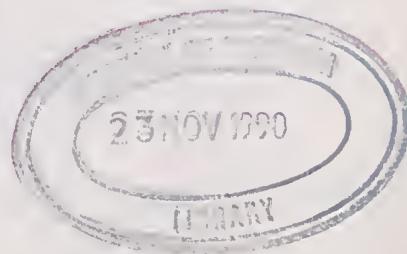


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THE ECTOPARASITIC MITES OF TASMANIAN VERTEBRATE ANIMALS

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ABSTRACT

Eighty-eight species of ectoparasitic mites in 41 genera and 15 families are recorded from Tasmanian vertebrate animals. The hosts from which these were collected are given, followed by the authority and relevant reference for the record.

A host list of 29 mammals, 23 birds and five reptiles is given together with the mite species recorded from each.

INTRODUCTION

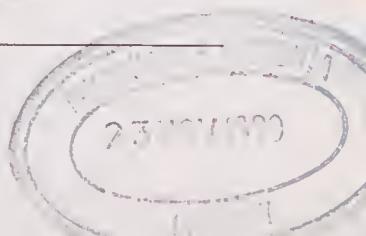
The Author's interest in the ectoparasites of Tasmanian native and feral fauna commenced in the 1950's when he started collecting material from animals salvaged for preservation in his own and various museum collections. These were bulk preserved in 70% alcohol and sent to Dr. J. H. Calaby, C.S.I.R.O., Canberra who in turn sorted and forwarded them to appropriate authorities and who subsequently provided information on identity and some aspects of their significance.

Following an appointment as zoologist with the Queen Victoria Museum in 1961 and the opportunity to process an increasing number of animals, the collections rapidly expanded and these were then posted directly to relevant taxonomists, mites going to Dr. Robert Domrow, Queensland Institute of Medical Research, Brisbane. Dr. Domrow's interest and enthusiasm in the content of the consignments and his many publications describing new and little known mites served to further stimulate collecting and this, together with additional material collected by others in Tasmania, has promoted the development of a greater knowledge of the ectoparasitic mites occurring in Tasmania.

The first list of Tasmanian mites was published by Green and Munday (1971), and the present publication is an endeavour to expand and revise that work. The role of the author in this project has been as a facilitator to allow others to undertake more detailed taxonomic research on this group. The arrangement of the present list is therefore the result of helpful criticism and suggestions of others who are more specialised in this field and who are gratefully acknowledged elsewhere.

The systematic list of mites includes also the names of hosts from which they have been collected, followed by references to the authority for the record. For convenience a cross reference of Tasmanian hosts from which the various species have been collected is also given.

Most of the material collected by the Author has been lodged in the Queen Victoria Museum, Launceston and the Queensland Institute of Medical Research, Brisbane, the latter repository as grateful acknowledgement of the researches of Dr. Domrow. Some type material has been lodged in other appropriate Institutions, at the discretion of Dr. Domrow and these are named in the relevant published descriptions.



Class: ARACHNIDA
Order: MESOSTIGMATA
Family: LAELAPIDAE

Genus *Andreacarus*

A. anadema Domrow, 1963

Mastacomys fuscus;
Domrow, 1978.

A. radfordi Domrow, 1963

Cercartetus lepidus;
Domrow, 1963a.

Dasyurus viverrinus;
Domrow, 1963a.

Sminthopsis leucopus;
Domrow, 1972.

Hydromys chrysogaster;
Domrow, 1977.

A. synoecus Domrow, 1978

Mastacomys fuscus;
Domrow, 1987.

Pseudomys higginsi;
Domrow, 1978.

Genus *Domrownyssus*

D. dentatus (Domrow, 1961)

Antechinus minimus;
Domrow, 1961.

Antechinus swainsonii;
Domrow, 1987.

Genus *Gymnolaelaps*

G. annectans Womersley, 1955

Isoodon obesus;
Domrow, 1963b.

Antechinus swainsonii;
Domrow, 1987.

Antechinus minimus;
Domrow, 1987.

Rattus lutreolus;
Domrow, 1987.

Rattus rattus;
Domrow, 1987.

Rattus norvegicus;
Domrow, 1987.

Hydromys chrysogaster;
Domrow, 1987.

Mastacomys fuscus;
Domrow, 1987.

Lepus capensis;
Domrow, 1987.

Oryctolagus cuniculus;
Domrow, 1987.

Eudyptula minor;
Domrow, 1987.

Puffinus tenuirostris;
Domrow, 1987.

Genus *Haemolaelaps*

H. domrowi Womersley, 1958

Perameles gunnii;
Domrow, 1961.

Rattus rattus;
Domrow, 1987.

Mus musculus;
Domrow, 1987.

H. fahrenholzi (Berlese, 1911)

Eudyptula minor;
Domrow, 1987.

Pachyptila turtur;
Domrow, 1973.

Puffinus tenuirostris;
Domrow, 1987.

Hydroprogne caspia;
Domrow, 1987.

H. flagellatus Womersley, 1958

Potorous apicalis;
Domrow, 1987.

Vombatus ursinus;
Domrow, 1987.

Isodon obesulus;
Domrow, 1987.

Sarcophilus harrisii;
Domrow, 1977.

Sminthopsis leucopus;
Domrow, 1987.

Tachyglossus aculeatus;
Domrow, 1973.

Eudyptula minor;
Domrow, 1977.

Pachyptila turtur;
Domrow, 1977.

Puffinus tenuirostris;
Domrow, 1977.

H. hattenae Domrow, 1963

Bettongia gaimardi;
Domrow, 1963b.

H. marsupialis (Berlese, 1910)

Isodon obesulus;
Domrow, 1961.

Perameles gunnii;
Domrow, 1961.

H. pachyptilae Zumpt and Till, 1956

Eudyptula minor;
Domrow, 1977.

Pachyptila turtur;
Domrow, 1977.

Puffinus tenuirostris;
Domrow, 1977.

Pelecanoides urinatrix;
Domrow, 1977.

H. ulysses Domrow, 1961

Pseudechirus peregrinus;
Domrow, 1987.

Genus *Hypoaspis*

H. acme Womersley, 1955

Puffinus tenuirostris;
Domrow, 1987.

Genus *Laelaps*

L. assimilis Womersley, 1956

Rattus lutreolus;
Domrow, 1961.

Rattus rattus;
Domrow, 1987.

Mastacomys fuscus;
Domrow, 1987.

L. calabyi Domrow, 1961

Pseudomys higginsi;
Domrow, 1961.

Rattus rattus;
Domrow, 1987.

L. cybiala Domrow, 1963

Mastacomys fuscus;
Domrow, 1963b.

Genus *Laelapsella*

L. humi Womersley, 1955

Trichosurus vulpecula;
Domrow, 1987.

Antechinus swainsonii;
Domrow, 1987.

Rattus lutreolus;
Domrow, 1963b.

Rattus norvegicus;
Domrow, 1973.

Hydromys chrysogaster;
Munday, 1966.

Mastacomys fuscus;
Domrow, 1987.

Puffinus tenuirostris;
Domrow, 1987.

Genus *Mesolaelaps*

M. antipodianus (Hirst, 1926)

Isoodon obesulus;
Domrow, 1961.

Perameles gunnii;
Domrow, 1963b.

Oryctolagus cuniculus;
Domrow, 1961.

M. australiensis (Hirst, 1926)

Perameles gunnii;
Domrow, 1987.

Dasyurus viverrinus;
Domrow, 1961.

Rattus lutreolus;
Domrow, 1987.

Rattus rattus;
Domrow, 1987.

Hydromys chrysogaster;
Domrow, 1987.

Mus musculus;
Domrow, 1987.

Oryctolagus cuniculus;
Domrow, 1987.

Eudyptula minor;
Domrow, 1987.

Puffinus tenuirostris;
Domrow, 1987.

M. bandicoota (Womersley, 1956)

Dasyurus viverrinus;
Domrow, 1973.

Rattus lutreolus;
Domrow, 1963b.

Hydromys chrysogaster;
Domrow, 1987.

Genus *Eulaelaps*
E. oudemansi Domrow, 1973
Mus musculus;
 Domrow, 1987.

Genus *Myonyssus*
M. decumani Tiraboschi, 1904
Isoodon obesulus;
 Domrow, 1963b.

Genus *Echinonyssus*
E. butantanensis (da Fonseca, 1932)
Rattus rattus;
 Domrow, 1987.

Genus *Thadeua*
T. greeni (Domrow, 1966)
Bettongia gaimardi;
 Domrow, 1966a.
T. mitchelli (Womersley, 1956)
Macropus rufogriseus;
 Domrow, 1973.
Thylogale billardierii;
 Domrow, 1987.
T. serrata Domrow, 1977
Macropus rufogriseus;
 Domrow, 1987.
T. validipes (Domrow, 1955)
Potorous apicalis;
 Domrow, 1973.

Genus *Trichosurolaelaps*
T. crassipes Womersley, 1956
Trichosurus vulpecula;
pers. comm. Calaby.

T. striatus Domrow, 1958
Pseudocheirus peregrinus;
Domrow, 1961.

Genus *Orthohalarachne*
O. attenuata (Banks, 1910)
Arctocephalus pusillus;
Domrow, 1987.

Family: RHINONYSSIDAE

Genus *Ophionyssus*
O. scincorum Domrow, Heath and Kennedy, 1980
Leiolopisma pretiosum;
Domrow, 1987.

Genus *Ornithonyssus*
O. bursa (Berlese, 1888)
Homo sapiens;
Domrow, 1966b.
O. dasyuri Domrow, 1983
Dasyurus viverrinus;
Domrow, 1983.
Sarcophilus harrisii;
Domrow, 1987.

O. sylviarum (Canestrini and Fanzago, 1877)
Dacelo novaeguineae
Domrow, 1987.
Hirundo neoxena;
Domrow, 1987.
Turdus merula;
Domrow, 1966b.
Pachycephala pectoralis;
Domrow, 1987.

Megalurus gramineus;
Domrow, 1973.

Anthochaera chrysoptera;
Domrow, 1987.

Manorina melanocephala;
Domrow, 1987.

Passer domesticus;
Domrow, 1963b.

Sturnus vulgaris;
Domrow, 1987.

Artamus cyanopterus;
Domrow, 1987.

Gallus domesticus;
Domrow, 1987.

Sirinus canaria;
Domrow, 1987.

Genus *Trichonyssus*

T. caputmedusae Domrow, 1986

Falsistrellus tasmaniensis;
Domrow, 1986.

Eptesicus sagittula;
Domrow, 1986.

T. womersleyi Domrow, 1959

Nyctophilus geoffroyi;
pers. comm. Womersley.

Chalinolobus gouldii;
Domrow, 1986.

Eptesicus sp.;
pers. comm. Womersley.

Falsistrellus tasmaniensis;
pers. comm. Domrow.

Genus *Rallinysus*

R. congolensis Fain, 1956

Porzana tabuensis;
Domrow, 1973.

R. gallinulae Fain, 1960

Rallus pectoralis;
Domrow, 1973.

Genus *Sternostoma*

S. tracheacolum Lawrence, 1948

Serinus canaria; (caged)
Domrow, 1987.

Family: DERMANYSSIDAE

Genus *Dermanyssus*

D. gallinae (De Geer, 1778)

Homo sapiens;
Domrow, 1987.

D. hirundinis (Hermann, 1804)

Lichenostomus flavicollis;
Domrow, 1963b.

Family: SPINTURNICIDAE

Genus *Spinturnix*

S. novaehollandiae Hirst, 1931

Nyctophilus geoffroyi;
Domrow, 1987.

Eptesicus regulus;
Domrow, 1987.

Falsistrellus tasmaniensis;
Domrow, 1987.

Family: TROMBICULIDAE

Genus *Eutrombicula*

E. vandiemeni (Domrow, 1962)

Egernia whitii;
Domrow & Lester, 1985.

Leioloopisma entrecasteauxii;
Domrow & Lester, 1985.

Leioloopisma metallicum;
Domrow & Lester, 1985.

Leioloopisma ocellatum;
Domrow & Lester, 1985.

Genus	<i>Neotrombicula</i>
	<i>N. novaehollandiae</i> Hirst, 1929)
	<i>Macropus rufogriseus</i> ; Domrow & Lester, 1985.
	<i>Thylogale billardierii</i> ; Domrow & Lester, 1985.
	<i>Potorous apicalis</i> ; Domrow & Lester, 1985.
	<i>Isoodon obesulus</i> ; Domrow & Lester, 1985.
	<i>Dasyurus maculatus</i> ; Domrow & Lester, 1985.
	<i>Dasyurus viverrinus</i> ; Domrow & Lester, 1985.
	<i>Antechinus swainsonii</i> ; Domrow & Lester, 1985.
	<i>Antechinus minimus</i> ; Domrow & Lester, 1985.
	<i>Rattus lutreolus</i> ; Domrow & Lester, 1985.
	<i>Tachyglossus aculeatus</i> ; Domrow & Lester, 1985.
Genus	<i>Ascoshoengastia</i>
	<i>A. rattus</i> (Womersley & Heaslip, 1943)
	<i>Trichosurus vulpecula</i> ; Domrow & Lester, 1985.
	<i>Hydromys chrysogaster</i> ; Domrow & Lester, 1985.
	<i>Rattus rattus</i> ; Domrow & Lester, 1985.
Genus	<i>Trombicula</i>
	<i>T. quadriensis</i> Womersley & Heaslip, 1943
	<i>Trichosurus vulpecula</i> ; Domrow & Lester, 1985.
	<i>Antechinus minimus</i> ; Domrow & Lester, 1985.
	<i>Hydromys chrysogaster</i> ; Domrow & Lester, 1985.

Genus *Guntheria**G. quatuor* Domrow, 1972*Sminthopus leucopus;*
Domrow & Lester, 1985.*Rattus lutreolus;*
Domrow & Lester, 1985.*G. kallipygos* (Gunther, 1939)*Thylogale billardierii;*
Domrow & Lester, 1985.*Potorous apicalis;*
Domrow & Lester, 1985.*Trichosurus vulpecula;*
Domrow & Lester, 1985.*Rattus lutreolus;*
Domrow & Lester, 1985.

Family: ATOPOMELIDAE

Genus *Campylochirus**C. brevipes* Fain & Domrow, 1976*Pseudochirus peregrinus;*
Fain & Domrow, 1976.*C. chelopus* Trouessart, 1893*Pseudochirus peregrinus;*
Domrow, 1958.Genus *Cytostethum**C. dendriticum* Fain & Domrow, 1974*Potorous apicalis;*
Fain & Domrow, 1974a.*C. domrowi* Fain, 1972*Potorous apicalis;*
Fain & Domrow, 1974a.*C. charactum* Domrow, 1956*Potorous apicalis;*
Fain & Domrow, 1974a.

C. gracile Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

C. hamatum Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

C. intermedium Fain & Domrow, 1974

Bettongia gaimardi;
Fain & Domrow, 1974b.

C. inerme Fain & Domrow, 1974

Thylogale billardierii;
Fain & Domrow, 1974b.

C. macropus Fain, 1970

Potorous apicalis;
Fain & Domrow, 1974a.

C. maydenenses Fain & Domrow, 1974

Thylogale billardierii;
Fain & Domrow, 1974b.

C. mesocharactum Fain & Domrow, 1974a

Potorous apicalis;
Fain & Domrow, 1974a.

C. mollisoni Domrow, 1961

Potorous apicalis;
Domrow, 1961.

C. nanophyes Domrow, 1956

Potorous apicalis;
Domrow, 1956.

C. postscutatum Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

C. postsquamatum Fain & Domrow, 1974

Thylogale billardierii;
Fain & Domrow, 1974b.

C. potorous Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

C. procharactum Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

C. promeces Domrow, 1956

Potorous apicalis;
Fain & Domrow, 1974a.

C. pseudocharactum Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

C. pseudotubiferum Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

C. spinulatum Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

C. thylogale Fain, 1970

Thylogale billardierii;
Fain & Domrow, 1974b.

Bettongia gaimardi;
Fain & Domrow, 1974b.

C. tasmaniense Fain & Domrow, 1974

Bettongia gaimardi
Fain & Domrow, 1974b.

C. tubiferum Fain & Domrow, 1974

Potorous apicalis;
Fain & Domrow, 1974a.

Family: PSOROPTIDAE

Genus *Acaroptes*

A. vombatus Womersley, 1953

Vombatus ursinus;
pers. comm. Calaby.

Family: PSOREGATIDAE

Genus *Psorobia**P. ovis* (Womersley, 1941)*Ovis aries*; (Domestic)
Seddon, 1968.

Family: DEMODICIDAE

Genus *Demodex**D. phylloides* Csokor, 1879*Sus scrofa*; (Domestic)
Seddon, 1968.

Family: SARCOPTIDAE

Genus *Diabolicoptes**D. sarcophilus* Fain & Domrow, 1974*Sarcophilus harrisii*;
Fain & Domrow, 1974c.Genus *Satanicoptes**S. armatus* Fain & Laurence, 1975*Sarcophilus harrisii*;
Fain & Laurence, 1975.Genus *Scarpotes**S. scabiei* (Linnaeus, 1758)*Vombatus ursinus*;
pers. comm. Domrow.Genus *Trixacarus**T. caviae* (Fain, Hovell & Hyatt, 1972)*Cavia porcellus*; (Pet)
pers. comm. Domrow.

Family: KNEMIDOKOPIDAE

Genus *Knemidocoptes**K. intermedius* Fain & Macfarlane, 1967*Corvus tasmanicus*;
pers. comm. Domrow.

Family: HYPODERATIDAE

Genus *Neottialges**N. evansi* Fain, 1979*Phalacrocorax carbo;*
Fain & Domrow, 1979.*N. tasmaniensis* Fain & Domrow, 1979*Leucocarbo fuscescens;*
Fain & Domrow, 1979.

Family: CYTODITIDAE

Genus *Cytodites**C. undus* (Vizioli, 1870)*Gallus domesticus;*
pers. comm. Domrow.

Family: CAMINOSIOPTIDAE

Genus *Caminopioptes**C. cysticola* (Vizioli, 1870)*Gallus domesticus;*
pers. comm. Domrow.

Family: ATOPOMELIDAE

Genus *Peterogalochirus**P. macropus* Fain & Domrow, 1974*Macropus rufogriseus;*
Fain & Domrow, 1974c.

Family: CHEYLETIIDAE

Genus *Neocheyletiella**N. artami* Domrow, 1961*Artamus cyanopterus;*
Domrow, 1966b.Genus *Cheyletiella**C. blakei* Smiley, 1970*Felis catus;*
pers. comm. Domrow.

HOST — PARASITE LIST

MAMMALS

Macropus rufogriseus

Thadeua mitchelli
Thadeua serrata
Neotrombicula novaehollandiae
Peterogalochirus macropus

Thylogale billardierii

Thadeua mitchelli
Neotrombicula novaehollandiae
Guntheria kallipygos
Cytostethum inerme
Cytostethum maydenenses
Cytostethum postsquamatum
Cytostethum thylogale

Bettongia gaimardi

Haemolaelaps hatteneae
Thadeua greeni
Cytostethum intermedium
Cytostethum thylogale
Cytostethum tasmaniensis

Potorous apicalis

Haemolaelaps flagellatus
Thadeua validipes
Neotrombicula novaehollandiae
Cytostethum dendriticum
Cytostethum domrowi
Cytostethum charactum
Cytostethum gracile
Cytostethum hamatum
Cytostethum inerme
Cytostethum intermedium
Cytostethum macropus
Cytostethum maydenensis
Cytostethum mesocharactum
Cytostethum mollisoni
Cytostethum nanophyes
Cytostethum postscutatum
Cytostethum postsquamatum
Cytostethum potorous
Cytostethum procharactum
Cytostethum promeces
Cytostethum pseudocharactum
Cytostethum pseudotubiferum
Cytostethum spinulatum
Cytostethum tasmaniensis
Cytostethum thylogale
Cytostethum tubiferum

Trichosurus vulpecula

Laelapsella humi
Trichosurolaelaps crassipes
Ascoshengastia rattus
Trombicular quadriensis
Guntheria kallipygos

Pseudocheirus peregrinus

Haemolaelaps ulysses
Trichosurolaelaps striatus
Campylochirus brevipennis
Campylochirus chelopus

Cercartetus lepidus

Andreacarus radfordi

Vombatus ursinus

Haemolaelaps flagellatus
Acaroptes vombatus
Sarcoptes scabiei

Isoodon obesulus

Gymnolaelaps annectans
Haemolaelaps flagellatus
Haemolaelaps marsupialis
Mesolaelaps antipodianus
Myonyssus decumani
Neotrombicula novaehollandiae

Perameles gunnii

Haemolaelaps domrowi
Haemolaelaps marsupialis
Mesolaelaps antipodianus
Mesolaelaps australiensis

Dasyurus maculatus

Neotrombicula novaehollandiae

Dasyurus viverrinus

Andreacarus radfordi
Mesolaelaps australiensis
Mesolaelaps bandicoota
Ornithonyssus dasyuri
Neotrombicula novaehollandiae

Sarcophilus harrisii

Haemolaelaps flagellatus
Ornithonyssus dasyuri
Diabolicoptes sarcophilus
Satanicoptes armatus

Antechinus swainsonii

Domrownyssus dentatus
Gymnolaelaps annectans
Laelapsella humi
Neotrombicula novaehollandiae

Antechinus minimus

Domrownyssus dentatus
Gymnolaelaps annectans
Neotrombicula novaehollandiae
Trombicula quadriensis

Sminthopsis leucopus

Andreacarus radfordi
Haemolaelaps flagellatus
Guntheria quatuor

Rattus lutreolus

Gymnolaelaps annectans
Laelaps assimilis
Laelapsella humi
Mesolaelaps australiensis
Mesolaelaps bandicoota
Guntheria quatuor

Rattus rattus

Gymnolaelaps annectans
Haemolaelaps domrowi
Laelaps assimilis
Laelaps calabyi
Mesolaelaps australiensis
Echinonyssus butantanensis
Ascoschoengastia rattus

Rattus norvegicus

Gymnolaelaps annectans
Laelapsella humi

Hydromys chrysogaster

Andreacarus radfordi
Gymnolaelaps annectans
Laelapsella humi
Mesolaelaps australiensis
Mesolaelaps bandicoota
Ascoschoengastia rattus
Trombicula quadriensis

Mastacomys fuscus

Andreacarus anadema
Andreacarus synoecus
Gymnolaelaps annectans
Laelaps assimilis
Laelaps cybiala
Laelapsella humi

Pseudomys higginsi

Andreacarus synoecus
Laelaps calabyi

Mus musculus

Haemolaelaps domrowi
Mesolaelaps australiensis
Eulaelaps oudemansi
Echinonyssus butantanensis

<i>Lepus capensis</i>	<i>Gymnolaelaps anectans</i>
<i>Oryctolagus cuniculus</i>	<i>Gymnolaelaps annectans</i> <i>Mesolaelaps antipodianus</i> <i>Mesolaelaps australiensis</i>
<i>Nyctophilus geoffroyi</i>	<i>Trichonyssus womersleyi</i> <i>Spinturnix novaehollandiae</i>
<i>Chalinolobus gouldii</i>	<i>Trichonyssus womersleyi</i>
<i>Eptesicus sagittula</i>	<i>Trichonyssus caputmedusae</i>
<i>Eptesicus regulus</i>	<i>Spinturnix novaehollandiae</i>
<i>Eptesicus</i> sp.	<i>Trichonyssus womersleyi</i>
<i>Falsistrellus tasmaniensis</i>	<i>Trichonyssus caputmedusae</i> <i>Trichonyssus womersleyi</i> <i>Spinturnix novaehollandiae</i>
<i>Felis catus</i>	<i>Eulaelaps oudehami</i> <i>Cheyletiella blakei</i>
<i>Arctocephalus pusillus</i>	<i>Orthohalarachne attenuata</i>
<i>Tachyglossus aculeatus</i>	<i>Haemolaelaps flagellatus</i> <i>Neotrembicula novaehollandiae</i>
<i>Ovis aries</i>	<i>Psorobia ovis</i>
<i>Sus scrofa</i>	<i>Demodex phylloides</i>
<i>Cavia porcellus</i>	<i>Trixacarus caviae</i>
<i>Homo sapiens</i>	<i>Ornithonyssus bursa</i> <i>Dermanyssus gallinae</i>

BIRDS

<i>Eudyptula minor</i>	<i>Gymnolaelaps annectans</i> <i>Haemolaelaps fahrenholzi</i> <i>Haemolaelaps flagellatus</i> <i>Haemolaelaps pachyptilae</i> <i>Mesolaelaps australiensis</i>
<i>Pachyptila turtur</i>	<i>Haemolaelaps fahrenholzi</i> <i>Haemolaelaps flagellatus</i> <i>Haemolaelaps pachyptilae</i>
<i>Puffinus tenuirostris</i>	<i>Gymnolaelaps annectans</i> <i>Haemolaelaps fahrenholzi</i> <i>Haemolaelaps flagellatus</i> <i>Haemolaelaps pachyptilae</i> <i>Hypoaspis acme</i> <i>Laelapsella humi</i> <i>Mesolaelaps australiensis</i>
<i>Pelecanoides urinatrix</i>	<i>Haemolaelaps pachyptilae</i>
<i>Leucocarbo fuscescens</i>	<i>Neottialges tasmaniensis</i>
<i>Phalacrocorax carbo</i>	<i>Neottialges evansi</i>
<i>Rallus pectoralis</i>	<i>Rallinysus gallinulae</i>
<i>Porzana tabuensis</i>	<i>Rallinysus congolensis</i>
<i>Hydroprogne caspia</i>	<i>Haemolaelaps fahrenholzi</i>
<i>Dacelo novaeguineae</i>	<i>Ornithonyssus sylvairum</i>
<i>Hirundo neoxena</i>	<i>Ornithonyssus sylviarum</i>
<i>Turdus merula</i>	<i>Ornithonyssus sylviarum</i>
<i>Pachycephala pectoralis</i>	<i>Ornithonyssus sylviarum</i>

<i>Megalurus gramineus</i>	<i>Ornithonyssus sylviarum</i>
<i>Anthochaera chrysoptera</i>	<i>Ornithonyssus sylviarum</i>
<i>Manorina melanocephala</i>	<i>Ornithonyssus sylviarum</i>
<i>Lichenostomus flavicollis</i>	<i>Dermanyssus hirundinis</i>
<i>Passer domesticus</i>	<i>Ornithonyssus sylviarum</i>
<i>Sturnus vulgaris</i>	<i>Ornithonyssus sylviarum</i>
<i>Artamus cyanopterus</i>	<i>Ornithonyssus sylviarum</i> <i>Neocheyletiella artami</i>
<i>Corvus tasmanicus</i>	<i>Knemidocopties intermedius</i>
<i>Gallus domesticus</i>	<i>Ornithonyssus sylviarum</i> <i>Cytodites undus</i> <i>Caminopioptes cysticola</i>
<i>Serinus canaria</i>	<i>Ornithonyssus sylviarum</i> <i>Sternostoma trachea olum</i>

REPTILES

<i>Egernia whitii</i>	<i>Eutrombicula vandiemeni</i>
<i>Leiolopisma entrecasteauxii</i>	<i>Eutrombicula vandiemeni</i>
<i>Leiolopisma metallicum</i>	<i>Eutrombicula vandiemeni</i>
<i>Leiolopisma ocellatum</i>	<i>Eutrombicula vandiemeni</i>
<i>Leiolopisma pretiosum</i>	<i>Ophionyssus scincorum</i>

REFERENCES

DOMROW, Robert (1956). Notes on Australian fur-mites (Listrophoridae, Atopomelinae), with description of a new genus. *Proc. Linn. Soc. N.S.W.* 80 (3):191-200.

_____ (1958). A summary of the Atopomelinae (Acarina, Listrophoridae). *Proc. Linn. Soc. N.S.W.* 83 (1):40-54.

_____ (1961). New and little-known Laelaptidae, Trombiculidae and Listrophoridae (Acarina) from Australasian mammals. *Proc. Linn. Soc. N.S.W.* 86 (1):60-95.

_____ (1962). The Genus *Siseca* in Australia (Acarina: Trombiculidae). *J. ent. Soc. Qd.* 1:21-24.

_____ (1963a). The Genus *Adreacarus* in Australia (Acarina: Laelapidae). *J. ent. Soc. Qd.* 2:9-12.

_____ (1963b). New Records and species of Austromalayan laelapid mites. *Proc. Linn. Soc. N.S.W.* 88 (2):199-220.

_____ (1966a). Some laelapid mites of syndactylous marsupials. *Proc. Linn. Soc. N.S.W.* 90 (2):164-175.

_____ (1966b). Some mite parasites of Australian birds. *Proc. Linn. Soc. N.S.W.* 90 (2):190-217.

_____ (1970). The male of *Neocheyletiella artami* Domrow (Acari:Cheyietidae). *Proc. Linn. Soc. N.S.W.* 94 (3):273-276.

_____ (1972). Eight Australian Species of *Andreacarus* Radford and *Haemolaelaps* Berlese (acari:Dermanyssidae). *J. Aust. ent. Soc.* 11 (2):105:113.

_____ (1973). New records and species of *Laelaps* and allied genera from Australasia (Acari:Dermanyssidae). *Proc. Linn. Soc. N.S.W.* 98 (2):62-85.

_____ (1977). New records and species of *Laelaps* and allied genera from Australasia (Acari:Dermanyssidae). Part 2. *Proc. Linn. Soc. N.S.W.* 101 (4):185-217.

_____ (1978). Two new species of *Andreacarus* Radfors from Tasmania (Acari:Dermanyssidae). *J. Aust. ent. Soc.* 17 (3):217-274.

____ (1983). A new species of *Ornithonyssus* Samson from Tasmania (Acar:Dermanyssidae). *J. Aust. ent. Soc.* 22 (1):69-73.

____ (1986). New and little known species of *Trichonyssus* Domrow (Acar:Dermanyssidae). *Acarologia* 27 17-29.

____ (1987). Acari Mesostigmata Parasite on Australian Vertebrates: an Annotated Checklist, Keys and Bibliography. *Invertbr, Taxon.*, 1:817-948.

DOMROW, Robert and LESTER, Keith N. (1985). Chiggers of Australia (Acar:Trombiculidae); an Annotated Checklist, Keys and Bibliography. *Aust. J. Zool. Sup. Series No. 114*, 1-111.

FAIN, Alex and DOMROW, Robert (1974a). The subgenus *Cytostethum* Domrow (Acar: Atopomelidae): multiple speciation on the marsupial *Potorous tridactylus* (Kerr). *Aust. J. Zool.* 22 (4):549-572.

____ (1974b). The subgenus *Metacytostethum* Fain (Acar: Atopomedidae): Parasites of macropodid marsupials. *Acarologia* 16 (4) 720-738.

____ (1974c). Two New Parasitic Mites (Acar: Sarcoptidae and Atopomelidae) from Tasmanian Marsupials. *Proc. Linn. Soc. N.S.W.* 98 (3):122-130.

FAIN, A. and LAWRENCE, B. R. (1975). *Satanicopites armatus*, N. Gen., N.Sp. (Astigmata: Sarcoptidae), a new mite producing mange in the Tasmanian Devil (*Sarcophilus harrisii* Boitard). *J. Med. Ent.* 12 (4) 415-417.

____ (1976). The genera *Campylochirus* Trouessart and *Campylochiopsis* Fain (Acar-Atopomelidae), parasites of phalangeroid marsupials in Australasia. *Proc. Linn. Soc. N.S.W.* 101 (1):27-37.

____ (1979). The family Hypoderidae (Acar) in Australia. *Proc. Linn. Soc. N.S.W.* 103 (1):43-46.

GREEN, R. H. and MUNDAY, B. L. (1971). Parasites of Tasmanian Native and Feral Fauna Part 1, Arthropoda. *Rec. Queen Vict. Mus.* No. 41, 1-16.

MUNDAY, B. L. (1966). Diseases of Tasman as free-living animals. *Tas. Dept. Agric. Res. Bull.* No. 5.

SEDDON, H. R., revised by ALBISTON, H. E. (1968). Diseases of domestic animals in Australia. Part 3. Arthropod infestation (ticks and mites), together with a section on animals, insects and other agents harmful to stock. *Aust. Commonw. Dep. Health Serv. Publ. (Vet. Hyg.)* No. 7.

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